

SEQUENCE LISTING

<110> Gardella, T.J.
Kronenberg, H.M.
Potts, J.T.
Juppner, H.

<120> Polypeptide Derivatives of Parathyroid Hormone (PTH)

<130> 0609.4820002

<140> To Be Assigned
<141> Herewith

<150> US 60/185,060
<151> 2000-02-25

<150> PCT/US00/04716
<151> 2000-02-25

<150> US 60/156,927
<151> 1999-09-29

<160> 31

<170> PatentIn Ver. 2.1

<210> 1
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH peptide

<220>

<221> UNSURE
<222> (10)
<223> Xaa can be Ala, Asp or Gln

<220>

<221> UNSURE
<222> (11)
<223> Xaa can be Leu, Arg, or homoArg

<220>

<221> UNSURE
<222> (12)
<223> Xaa can be Arg or Ala

<220>

<221> UNSURE
<222> (14)
<223> Xaa can be Phe or Trp

<400> 1

Ala Val Ala Glu Ile Gln Leu Met His Xaa Xaa Xaa Lys Xaa
1 5 10

<210> 2

<211> 14
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH peptide

<220>

<221> UNSURE

<222> (10)

<223> Xaa can be Ala or Gln

<220>

<221> UNSURE

<222> (14)

<223> Xaa can be Trp or His

<400> 2

Ala Val Ala Glu Ile Gln Leu Met His Xaa Arg Ala Lys Xaa
1 5 10

<210> 3

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH peptide

<400> 3

Ala Val Ala Glu Ile Gln Leu Met His Ala Arg Ala Lys His
1 5 10

<210> 4

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH peptide

<400> 4

Ala Val Ser Glu Ile Gln Leu Met His Asn Arg Gly Lys His
1 5 10

<210> 5

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH peptide

<400> 5

Ala Val Ser Glu Ile Gln Leu Met His Asn Arg Ala Lys His
1 5 10

<210> 6
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<400> 6
Ala Val Ala Glu Ile Gln Leu Met His Asn Arg Ala Lys His
1 5 10

<210> 7
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<400> 7
Ala Val Ala Glu Ile Gln Leu Met His Ala Arg Ala Lys Trp
1 5 10

<210> 8
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<400> 8
Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys His
1 5 10

<210> 9
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<400> 9
Ala Val Ala Glu Ile Gln Leu Met His Ala Arg Ala Lys
1 5 10

<210> 10
<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH peptide

<400> 10

Ala Val Ala Glu Ile Gln Leu Met His Ala Arg Ala
1 5 10

<210> 11

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH peptide

<400> 11

Ala Val Ala Glu Ile Gln Leu Met His Ala Arg
1 5 10

<210> 12

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH peptide

<400> 12

Ala Val Ala Glu Ile Gln Leu Met His Ala Arg Ala Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asp Tyr

<210> 13

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH peptide

<400> 13

Ala Val Ser Glu Ile Gln Leu Met His Ala Arg Ala Lys His
1 5 10

<210> 14

<211> 14

<212> PRT

<213> Homo sapiens

<400> 14

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His
1 5 10

<210> 15
<211> 14
<212> PRT
<213> Homo sapiens

<400> 15
Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His
1 5 10

<210> 16
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<220>
<221> UNSURE
<222> (10)
<223> Xaa can be Ala or Asp

<220>
<221> UNSURE
<222> (11)
<223> Xaa can be Leu, Arg or homoArg

<220>
<221> UNSURE
<222> (12)
<223> Xaa can be Arg or Ala

<220>
<221> UNSURE
<222> (14)
<223> Xaa can be Phe or Trp

<220>
<221> UNSURE
<222> (34)
<223> Xaa can be Phe or Tyr

<400> 16
Ala Val Ala Glu Ile Gln Leu Met His Xaa Xaa Xaa Lys Xaa Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asp Xaa

<210> 17
<211> 14
<212> PRT

<213> Rattus norvegicus

<400> 17

Ala Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His
1 5 10

<210> 18

<211> 34

<212> PRT

<213> Rattus norvegicus

<400> 18

Ala Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Ala
1 5 10 15

Ser Val Glu Arg Met Gln Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 19

<211> 34

<212> PRT

<213> Homo sapiens

<400> 19

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe

<210> 20

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH
peptide

<400> 20

Ala Val Ala Glu Ile Gln Leu Met His Ala Arg Ala Lys His Leu Ala
1 5 10 15

Ser Val Glu Arg Met Gln Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asp Tyr

<210> 21

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH peptide

<220>

<221> UNSURE

<222> (10)

<223> Xaa can be Ala or Asp

<220>

<221> UNSURE

<222> (11)

<223> Xaa can be Leu, Arg or homoArg

<220>

<221> UNSURE

<222> (12)

<223> Xaa can be Arg or Ala

<220>

<221> UNSURE

<222> (14)

<223> Xaa can be Phe or Trp

<220>

<221> UNSURE

<222> (34)

<223> Xaa can be Phe or Tyr

<400> 21

Ser Val Ala Glu Ile Gln Leu Met His Xaa Xaa Xaa Lys Xaa Leu Ala
1 5 10 15

Ser Val Glu Met Gln Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asp Xaa

<210> 22

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified PTH peptide

<400> 22

Ala Val Ala Glu Ile Gln Leu Met His Ala Arg Ala Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asp Tyr

DECODED: 09/20/00

<210> 23
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<400> 23
Ala Val Ala Glu Ile Gln Leu Met His Ala Arg Ala Lys His Leu Ala
1 5 10 15

Ser Val Arg Arg Met Gln Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asp Tyr

<210> 24
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<400> 24
Ala Val Ala Glu Ile Gln Leu Met His Ala Arg Ala Lys His Leu Asn
1 5 10 15

Ser Met Arg Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asp Tyr

<210> 25
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<220>
<221> UNSURE
<222> (10)
<223> Xaa can be Ala or Asp

<220>
<221> UNSURE
<222> (11)
<223> Xaa can be Leu, Arg or homoArg

<220>
<221> UNSURE
<222> (12)
<223> Xaa can be Arg or Ala

<220>
<221> UNSURE
<222> (14)
<223> Xaa can be Phe or Trp

<220>
<221> UNSURE
<222> (19)
<223> Xaa can be Arg or Ala

<400> 25
Ala Val Ala Glu Ile Gln Leu Met His Xaa Xaa Xaa Lys Xaa Leu Asn
1 5 10 15

Ser Met Xaa Arg
20

<210> 26
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH
peptide

<220>
<221> UNSURE
<222> (10)
<223> Xaa can be Ala or Asp

<220>
<221> UNSURE
<222> (11)
<223> Xaa can be Leu, Arg or homoArg

<220>
<221> UNSURE
<222> (12)
<223> Xaa can be Arg or Ala

<220>
<221> UNSURE
<222> (14)
<223> Xaa can be Phe or Trp

<220>
<221> UNSURE
<222> (19)
<223> Xaa can be Arg or Ala

<400> 26
Ala Val Ala Glu Ile Gln Leu Met His Xaa Xaa Xaa Lys Xaa Leu Asn
1 5 10 15

Ser Met Xaa Arg Val Glu
20

<210> 27
<211> 24

096272020 "092300

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<220>
<221> UNSURE
<222> (10)
<223> Xaa can be Ala or Asp

<220>
<221> UNSURE
<222> (11)
<223> Xaa can be Leu, Arg or homoArg

<220>
<221> UNSURE
<222> (12)
<223> Xaa can be Arg or Ala

<220>
<221> UNSURE
<222> (14)
<223> Xaa can be Phe or Trp

<220>
<221> UNSURE
<222> (19)
<223> Xaa can be Arg or Ala

<400> 27
Ala Val Ala Glu Ile Gln Leu Met His Xaa Xaa Xaa Lys Xaa Leu Asn
1 5 10 15

Ser Met Xaa Arg Val Glu Trp Leu
20

<210> 28
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<220>
<221> UNSURE
<222> (10)
<223> Xaa can be Ala or Asp

<220>
<221> UNSURE
<222> (11)
<223> Xaa can be Leu, Arg or homoArg

<220>
<221> UNSURE
<222> (12)

09672060 092400

<223> Xaa can be Arg or Ala

<220>
<221> UNSURE
<222> (14)
<223> Xaa can be Phe or Trp

<220>
<221> UNSURE
<222> (19)
<223> Xaa can be Arg or Ala

<400> 28

Ala Val Ala Glu Ile Gln Leu Met His Xaa Xaa Xaa Lys Xaa Leu Asn
1 5 10 15

Ser Met Xaa Arg Val Glu Trp Leu Arg Lys
20 25

<210> 29
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH
peptide

<220>
<221> UNSURE
<222> (10)
<223> Xaa can be Ala or Asp

<220>
<221> UNSURE
<222> (11)
<223> Xaa can be Leu, Arg or homoArg

<220>
<221> UNSURE
<222> (12)
<223> Xaa can be Arg or Ala

<220>
<221> UNSURE
<222> (14)
<223> Xaa can be Phe or Trp

<220>
<221> UNSURE
<222> (19)
<223> Xaa can be Arg or Ala

<400> 29

Ala Val Ala Glu Ile Gln Leu Met His Xaa Xaa Xaa Lys Xaa Leu Asn
1 5 10 15

Ser Met Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu
20 25

DRAFTED BY S.G.B.

<210> 30
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<220>
<221> UNSURE
<222> (10)
<223> Xaa can be Ala or Asp

<220>
<221> UNSURE
<222> (11)
<223> Xaa can be Leu, Arg or homoArg

<220>
<221> UNSURE
<222> (12)
<223> Xaa can be Arg or Ala

<220>
<221> UNSURE
<222> (14)
<223> Xaa can be Phe or Trp

<220>
<221> UNSURE
<222> (19)
<223> Xaa can be Arg or Ala

<400> 30
Ala Val Ala Glu Ile Gln Leu Met His Xaa Xaa Xaa Lys Xaa Leu Asn
1 5 10 15

Ser Met Xaa Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp
20 25 30

<210> 31
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified PTH peptide

<220>
<221> UNSURE
<222> (10)
<223> Xaa can be Ala or Asp

<220>
<221> UNSURE
<222> (11)
<223> Xaa can be Leu, Arg or homoArg

<220>

BACKFILE DOCUMENT INDEX SHEET



A DOCPHOENIX

APPL PARTS

IMIS	Internal Misc. Paper
LET.	Misc. Incoming Letter

371P
PCT Papers in a 371 Application

A...
Amendment Including Elections

ABST
Abstract

ADS
Application Data Sheet

AF/D
Affidavit or Exhibit Received

APPENDIX
Appendix

ARTIFACT
Artifact

BIB
Bib Data Sheet

CLM
Claim

COMPUTER
Computer Program Listing

CRFL
All CRF Papers for Backfile

DIST
Terminal Disclaimer Filed

DRW
Drawings

FOR
Foreign Reference

FRPR
Foreign Priority Papers

IDS
IDS Including 1449

NPL	Non-Patent Literature	CTNF	Count Non-Final
OATH	Oath or Declaration	CTRS	Count Restriction
PET.	Petition	EXIN	Examiner Interview
RETRMAIL	Mail Returned by USPS	M903	DO/EO Acceptance
SEQLIST	Sequence Listing	M905	DO/EO Missing Requirement
SPEC	Specification	NFDR	Formal Drawing Required
SPEC NO	Specification Not in English	NOA	Notice of Allowance
TRNA	Transmittal New Application	PETDEC	Petition Decision

OUTGOING

CTMS	Misc. Office Action
1449	Signed 1449
892	892
ABN	Abandonment
APDEC	Board of Appeals Decision
APEA	Examiner Answer
CTAV	Count Advisory Action
CTEQ	Count Ex parte Quayle
CTFR	Count Final Rejection

INCOMING

AP.B	Appeal Brief
C.AD	Change of Address
N/AP	Notice of Appeal
PA..	Change in Power of Attorney
REM	Applicant Remarks in Amendment
XT/	Extension of Time filed separate

Internal

SRNT	Examiner Search Notes
CLMPTO	PTO Prepared Complete Claim Set

ECBOX	Evidence Copy Box Identification
WCLM	Claim Worksheet
WFEE	Fee Worksheet

File Wrapper

FWCLM	File Wrapper Claim
IIFW	File Wrapper Issue Information
SRFW	File Wrapper Search Info